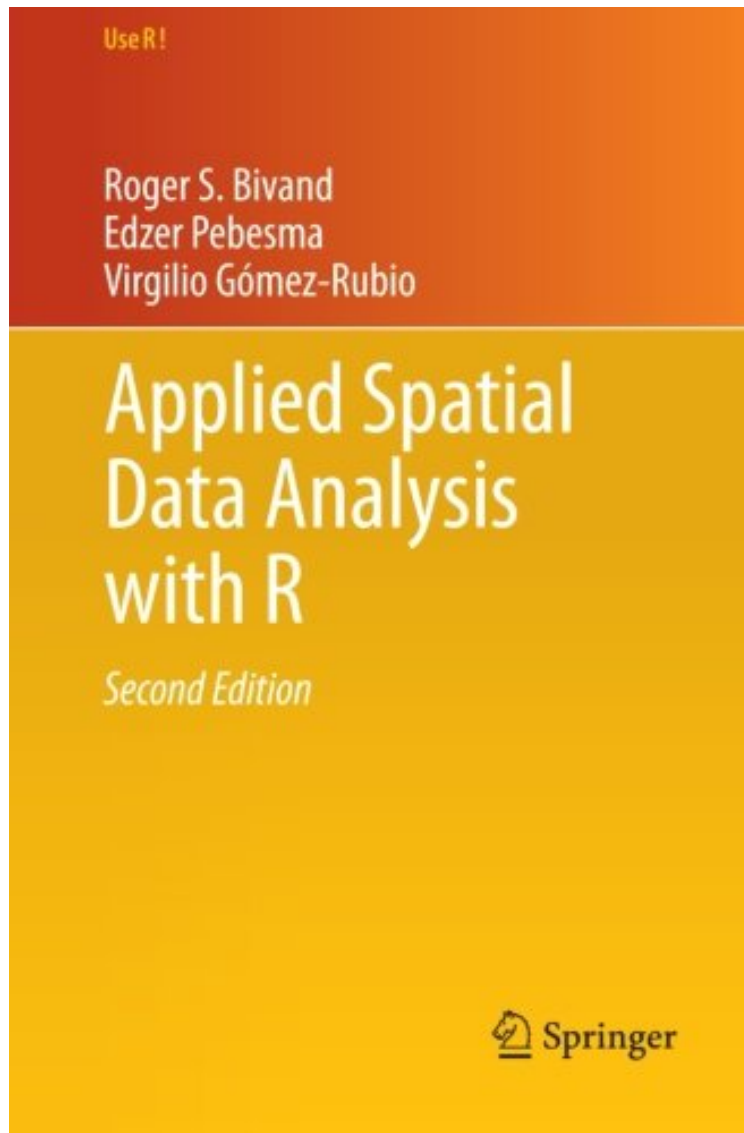


[E-BOOK] Applied Spatial Data Analysis with R (Use R!)

Applied Spatial Data Analysis with R (Use R!)

Roger S. Bivand, Edzer Pebesma, Virgilio Gmez-Rubio
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Roger S. Bivand, Edzer Pebesma, Virgilio Gmez-Rubio : Applied Spatial Data Analysis with R (Use R!) before purchasing it in order to gage whether or not it would be worth my time, and all praised Applied Spatial Data Analysis with R (Use R!):

25 of 25 people found the following review helpful. Lots of information, clearly presented. By E. Eff This is not a book for a beginner, but is an excellent book for two groups of readers: those who have some background with R and wish to learn about its capabilities for spatial statistics; and those with some background in spatial statistics who wish to

learn how to use R. The authors have been the main developers of the spatial statistics packages on R, and therefore know the packages intimately. But the authors also have a deep knowledge of the spatial statistics literature, and I found myself learning something new about these methods in every chapter. Everyone serious about spatial statistics should see what R has to offer. This book is the easiest way to do that. 1 of 1 people found the following review helpful. Awesome textbook By KayakFisherman If you are not used to R, get some familiarity first. This is a great resource for people who are accustomed to R. Would recommend for just about anyone in the environmental/geographic field. 0 of 0 people found the following review helpful. Excellent Guidebook By Ecologist This is a great book that I refer to on a regular basis. There is a sufficient amount of math, so that users have some background on procedures. There is a great collection of examples with R code so that procedures can be easily implemented. Most of the procedures use standard frequentist methods, though there are a few examples of Bayesian analyses. Highly recommended for applied scientists who are comfortable with basic concepts of statistics, R, and GIS.

Applied Spatial Data Analysis with R, second edition, is divided into two basic parts, the first presenting R packages, functions, classes and methods for handling spatial data. This part is of interest to users who need to access and visualise spatial data. Data import and export for many file formats for spatial data are covered in detail, as is the interface between R and the open source GRASS GIS and the handling of spatio-temporal data. The second part showcases more specialised kinds of spatial data analysis, including spatial point pattern analysis, interpolation and geostatistics, areal data analysis and disease mapping. The coverage of methods of spatial data analysis ranges from standard techniques to new developments, and the examples used are largely taken from the spatial statistics literature. All the examples can be run using R contributed packages available from the CRAN website, with code and additional data sets from the book's own website. Compared to the first edition, the second edition covers the more systematic approach towards handling spatial data in R, as well as a number of important and widely used CRAN packages that have appeared since the first edition. This book will be of interest to researchers who intend to use R to handle, visualise, and analyse spatial data. It will also be of interest to spatial data analysts who do not use R, but who are interested in practical aspects of implementing software for spatial data analysis. It is a suitable companion book for introductory spatial statistics courses and for applied methods courses in a wide range of subjects using spatial data, including human and physical geography, geographical information science and geoinformatics, the environmental sciences, ecology, public health and disease control, economics, public administration and political science. The book has a website where complete code examples, data sets, and other support material may be found: <http://www.asdar-book.org>. The authors have taken part in writing and maintaining software for spatial data handling and analysis with R in concert since 2003.

The book's tone and technical focus suits well its intended audience: advanced or intermediate users of R wanting to improve their spatial analysis skills. This book is the authoritative resource on R's spatial capabilities. I heartily recommend ASDAR to all existing R users interested in spatial data and adventurous R beginners with a strong grounding in GIS. (Robin Lovelace, Applied Spatial Analysis and Policy, Vol. 8, 2015) From the Back Cover Applied Spatial Data Analysis with R, Second Edition, is divided into two basic parts, the first presenting R packages, functions, classes and methods for handling spatial data. This part is of interest to users who need to access and visualise spatial data. Data import and export for many file formats for spatial data are covered in detail, as is the interface between R and the open source GRASS GIS and the handling of spatio-temporal data. The second part showcases more specialised kinds of spatial data analysis, including spatial point pattern analysis, interpolation and geostatistics, areal data analysis and disease mapping. The coverage of methods of spatial data analysis ranges from standard techniques to new developments, and the examples used are largely taken from the spatial statistics literature. All the examples can be run using R contributed packages available from the CRAN website, with code and additional data sets from the book's own website. Compared to the first edition, the second edition covers the more systematic approach towards handling spatial data in R, as well as a number of important and widely used CRAN packages that have appeared since the first edition. This book will be of interest to researchers who intend to use R to handle, visualise, and analyse spatial data. It will also be of interest to spatial data analysts who do not use R, but who are interested in practical aspects of implementing software for spatial data analysis. It is a suitable companion book for introductory spatial statistics courses and for applied methods courses in a wide range of subjects using spatial data, including human and physical geography, geographical information science and geoinformatics, the environmental sciences, ecology, public health and disease control, economics, public administration and political science. The book has a website where complete code examples, data sets, and other support material may be found: <http://www.asdar-book.org>. The authors have taken part in writing and maintaining software for spatial data handling and analysis with R in concert since 2003. About the Author Roger Bivand is Professor of Geography in the Department of Economics at the Norwegian School of Economics, Bergen, Norway. Edzer Pebesma is Professor of Geoinformatics at Westfälische Wilhelms-Universität, Münster, Germany. Virgilio Gomez-Rubio is Associate Professor in the Department of Mathematics

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